

Lines and Curtains

by Arya Akhavan (May 2015)

Angles for R.I. = 1.500

79 + 24 girdles = 103 facets

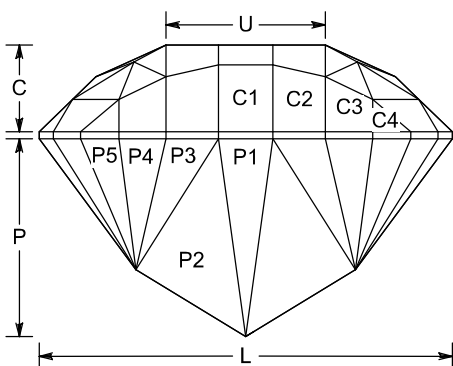
3-fold, mirror-image symmetry

96 index

L/W = 1.000 T/W = 0.408 U/W = 0.386

P/W = 0.478 C/W = 0.210

Vol./W³ = 0.258



PAVILION

P1	43.68°	96-32-64	Cut to centerpoint.
P2	43.50°	01-31-33-63-65-95	Meet at culet.
G1	90.00°	96-04-08-12-16-20-24-28-32-36-40-44-48-52-56-60-64-68-72-76-80-84-88-92	Set stone size.
P3	48.13°	04-28-36-60-68-92	Level girdle.
P4	53.44°	08-24-40-56-72-88	Meet P2, P3; level girdle.
P5	57.20°	12-20-44-52-76-84	Meet P2, P3, P4; level girdle.
P6	58.56°	16-48-80	Meet P2, P3, P4, P5; level girdle.

CROWN

C1	40.00°	96-32-64	Set girdle width.
C2	40.98°	04-28-36-60-68-92	Level girdle.
C4	49.88°	12-20-44-52-76-84	Level girdle.
C3	44.10°	08-16-24-40-48-56-72-80-88	Level girdle.
C5	40.28°	16-48-80	Meet C3, C4
C6	34.42°	12-20-44-52-76-84	Meet C3, C4, C5
C7	26.14°	10-22-42-54-74-86	Meet C2, C3, C6; C5, C6
C8	24.21°	08-24-40-56-72-88	Meet C2, C3, C6, C7
C9	21.28°	96-32-64	Meet C1, C2, C8
T	0.00°	Table	Meet C7, C8

This design was a modification of my "Iron Son" design, and was an attempt to make it both easier and more geometric. The linear bars on the crown and the "curtain" adapter facets (reverse barion!) on the pavilion give this very unique design its name. The reflection pattern is absolutely fascinating! Works in materials from petalite to YAG (RI = 1.50 - 1.83) with no changes, and can be scaled for higher RIs.

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